



KOREAN PATENT ABSTRACTS

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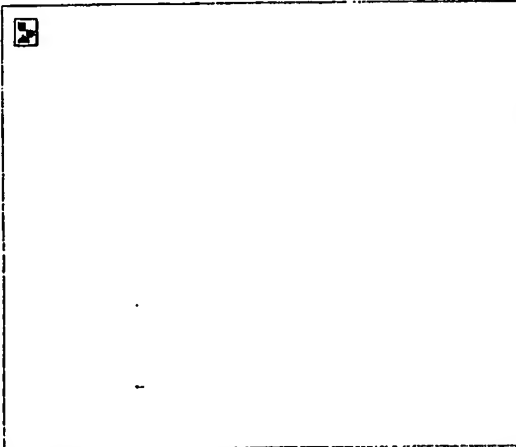
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(54) LIGHT GUIDE PANEL OF BACKLIGHT UNIT FOR LCD

(57) Abstract:

PURPOSE: A light guide panel of a backlight for an LCD(liquid crystal display) unit is to refract light incident to the light guide panel at all angles to increase luminance, thereby increasing the brightness of the emitted light and also simplifying a fabricating process.

CONSTITUTION: A light guide panel(20) radiates light incident from a fluorescent lamp through a diffusing material to a luminous region. A light incident surface has at least one inclined face at a desired angle, which is formed in a vertical direction. The inclined face is continuously aligned in the vertical direction to form a concavo-convex portion. The concavo-convex portion is formed into an arc or a triangular. The light guide panel is formed of PMMA(Polymethylmethacrylate) resin. A diffusing material is coated at a lower portion of the light guide panel. When the light emitted from the fluorescent lamp is incident to the light guide panel, the light is incident to the diffusing material then radiated to the luminous region. At this time, the light incident to the light incident surface of the light guide panel is refracted at an inner portion of the light guide panel.



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